

FIG. 1

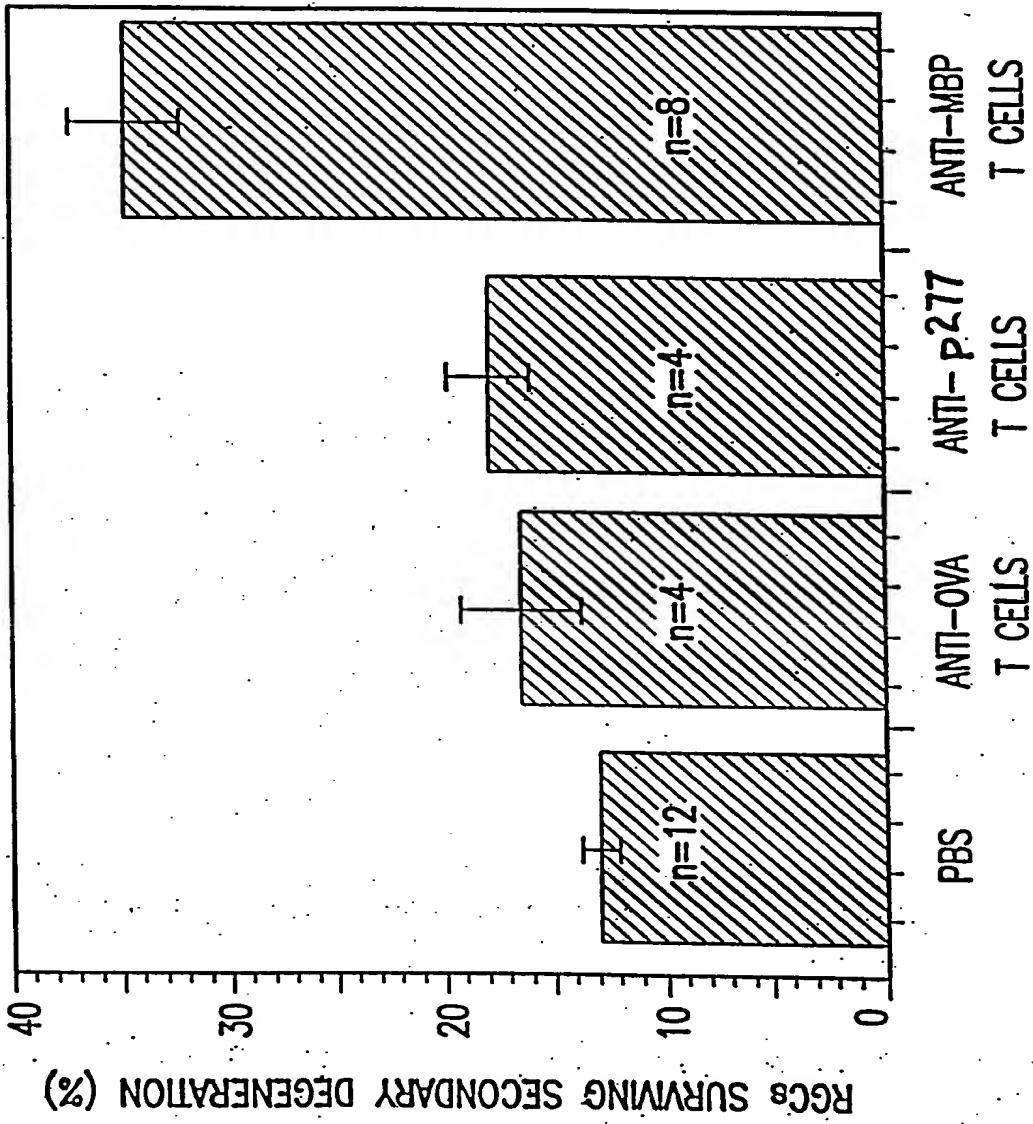
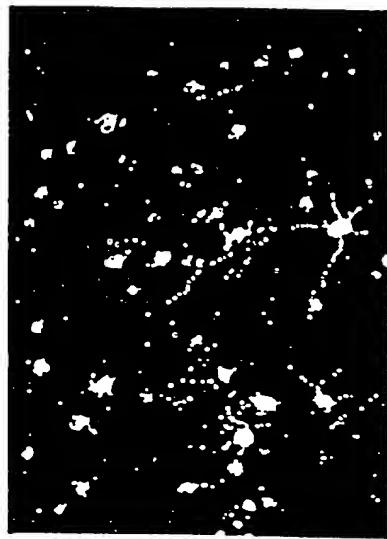


FIG. 2

5763-029

(SHEET 3 OF 25)



160 μ m

FIG. 3C

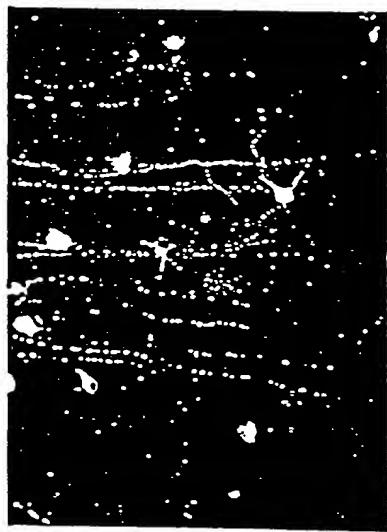


FIG. 3B



FIG. 3A

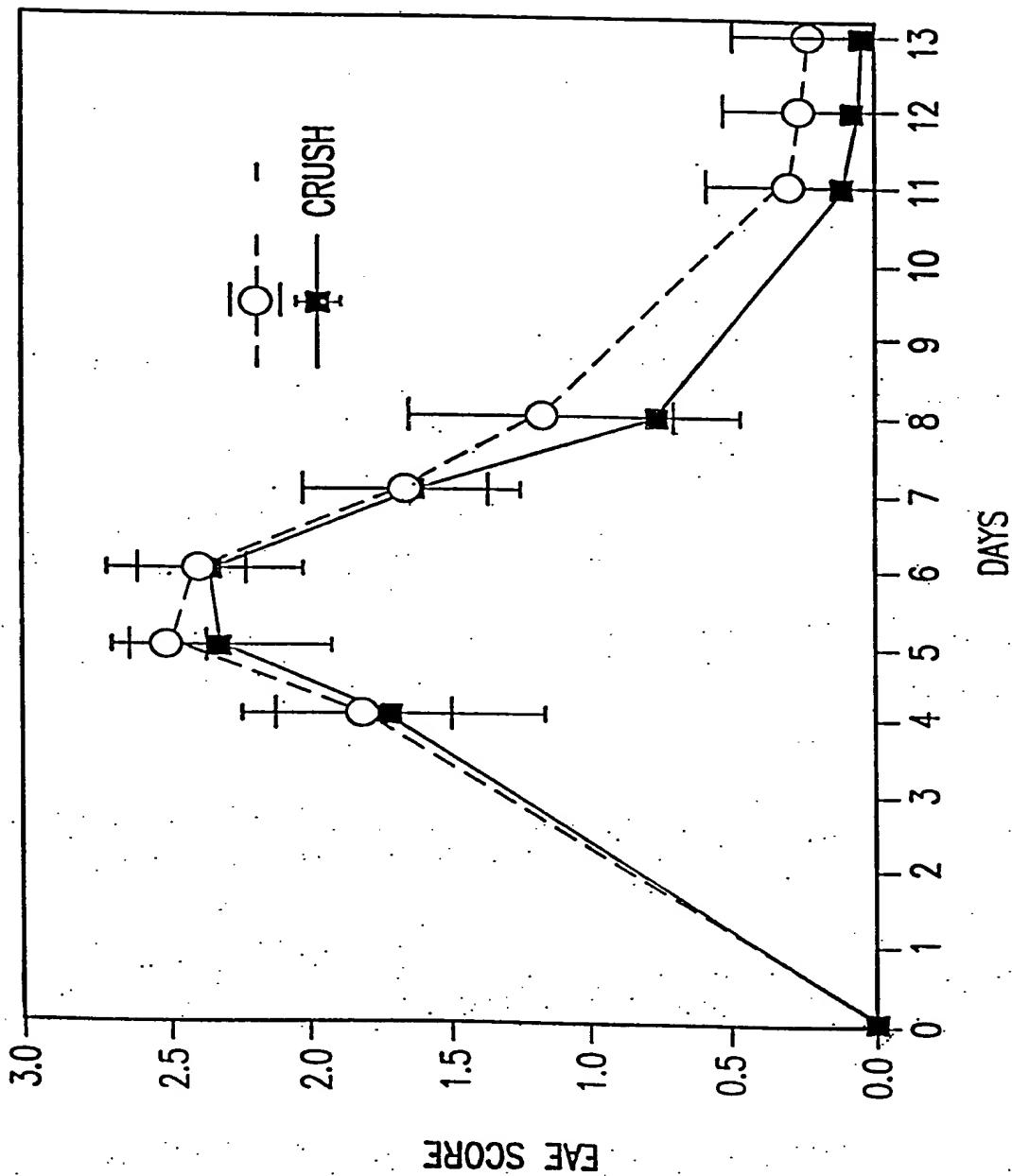


FIG. 4A

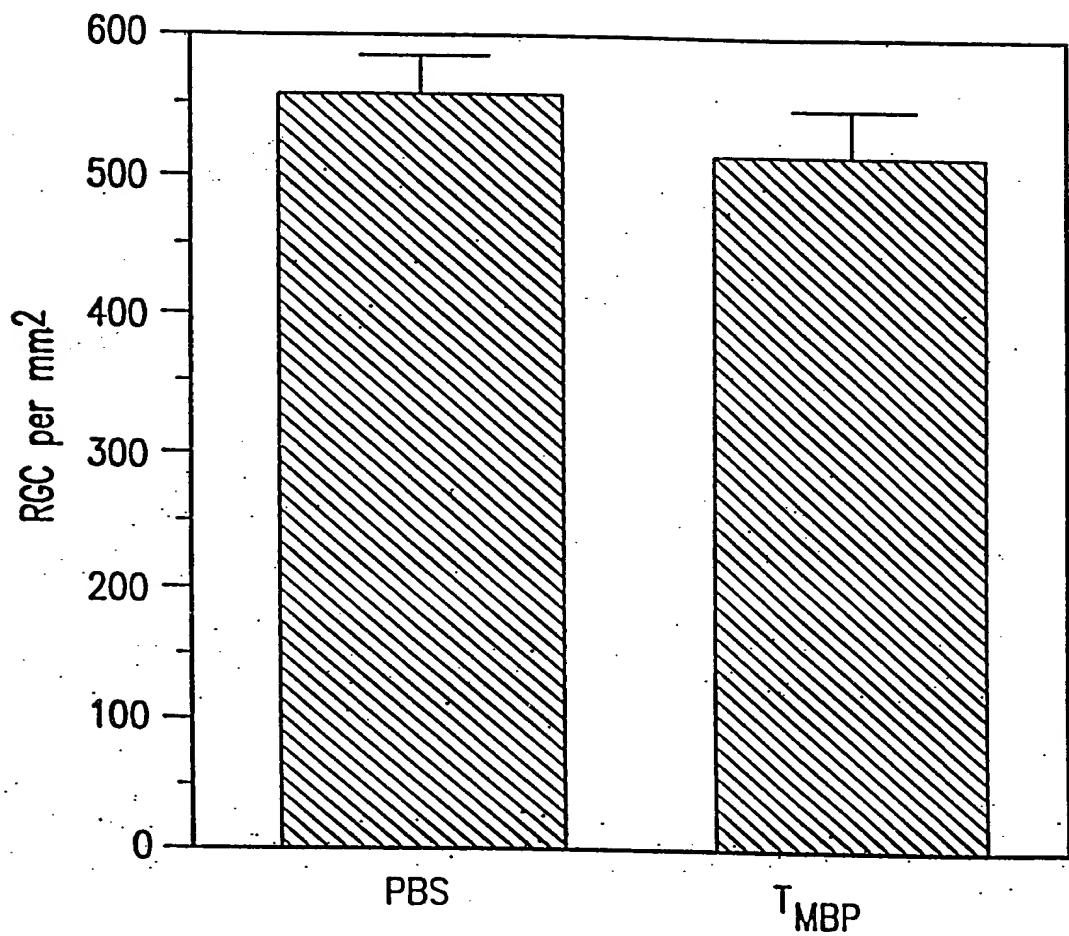


FIG. 4B

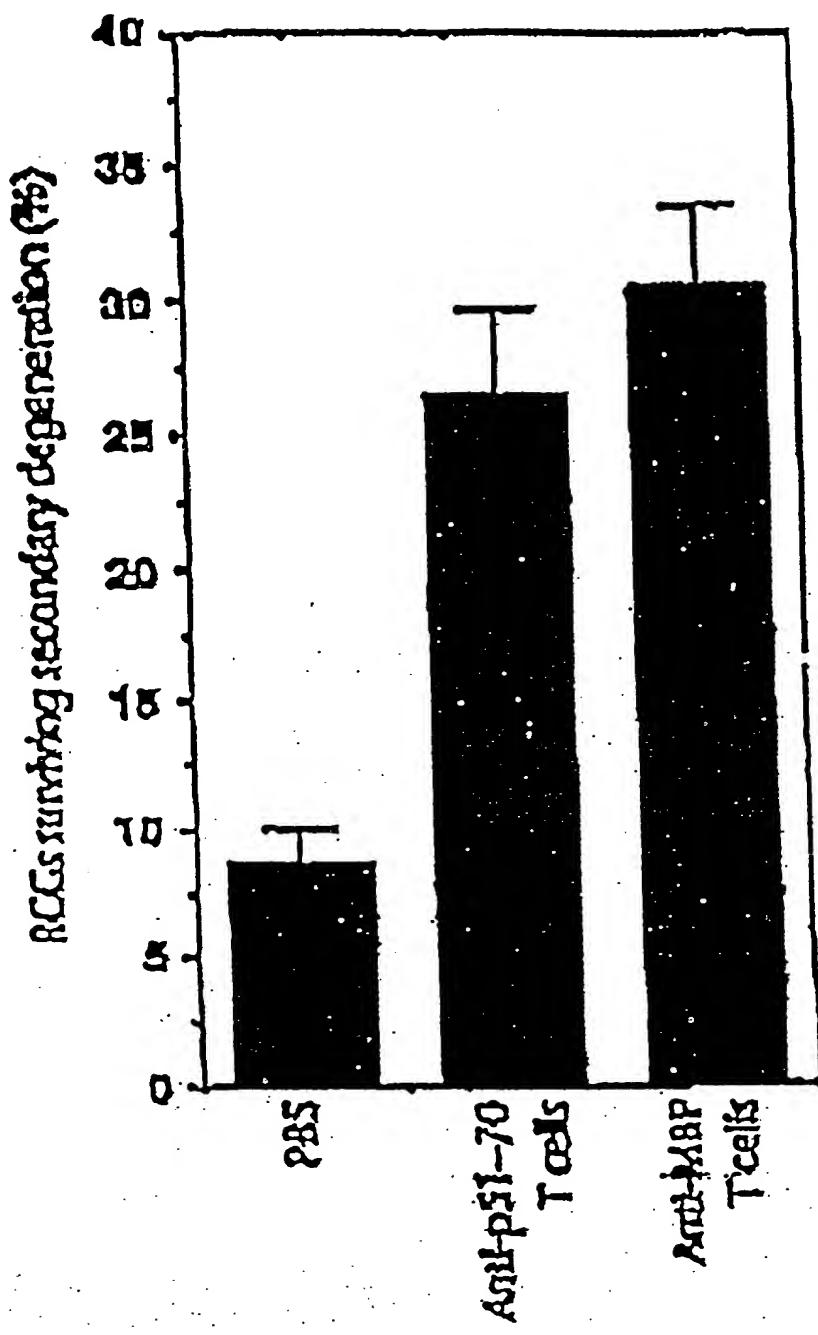


FIG. 5

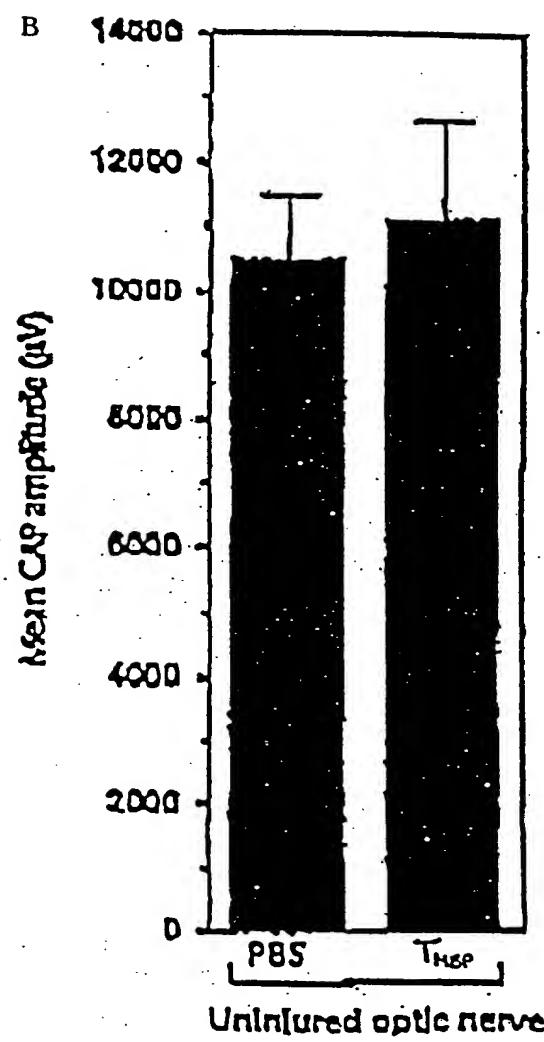
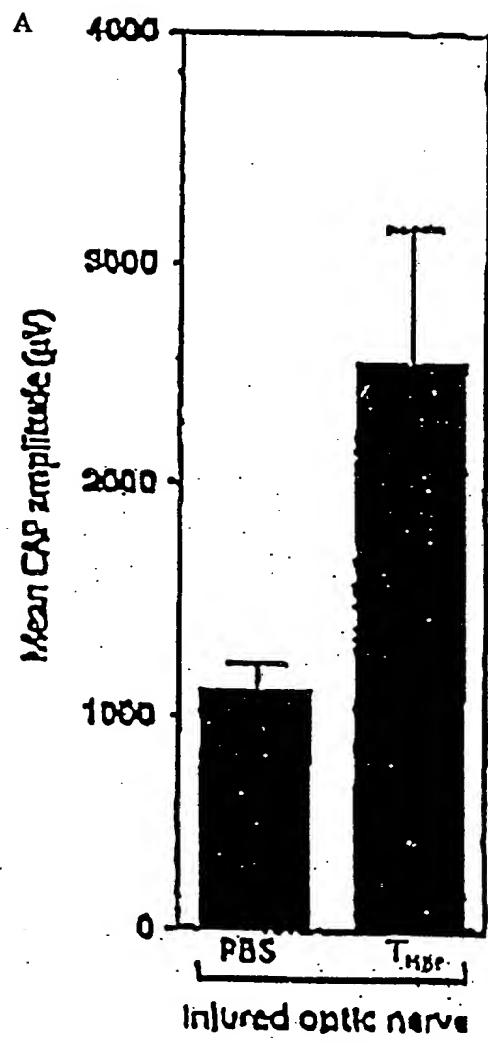


FIG. 6

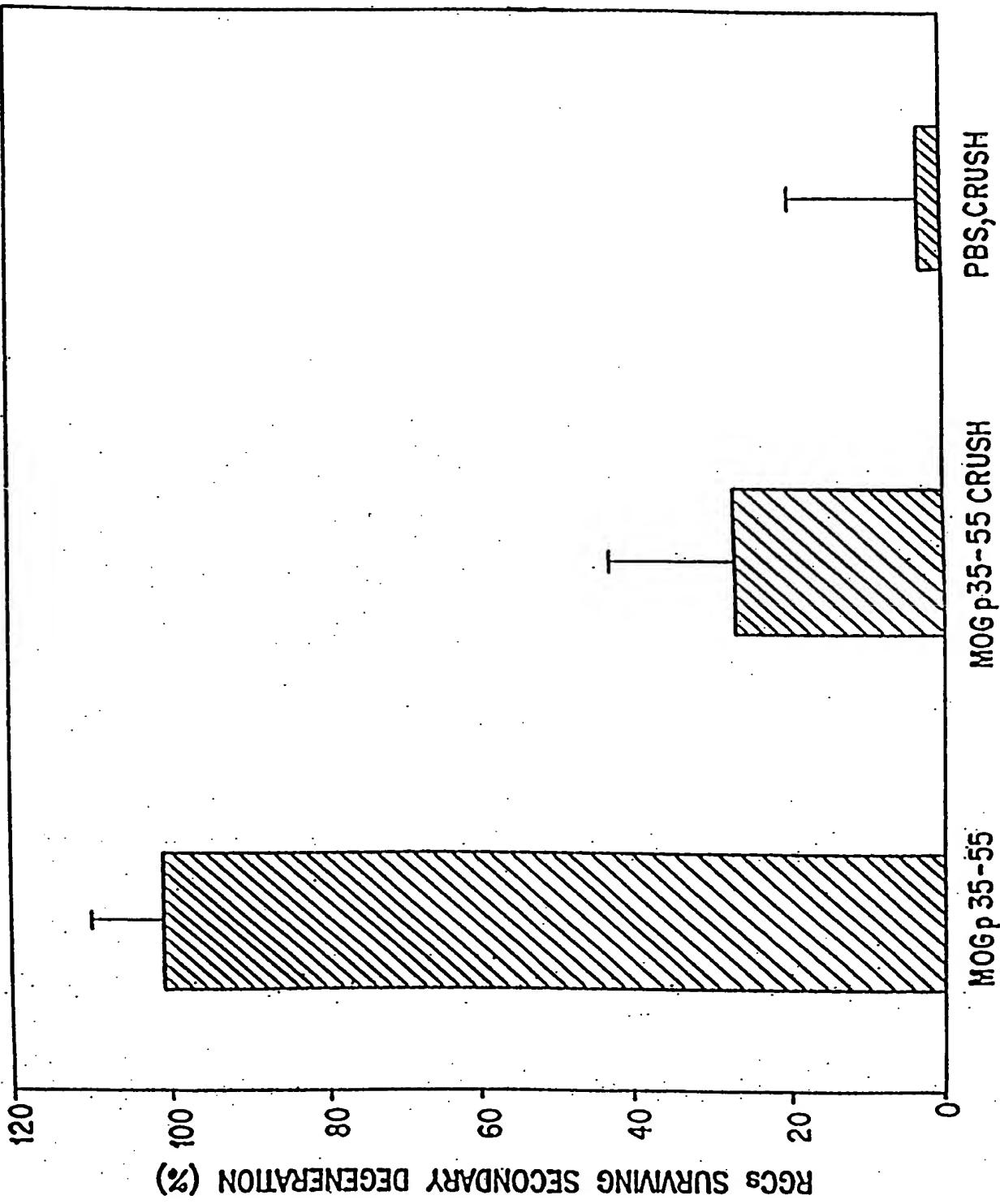


FIG. 7

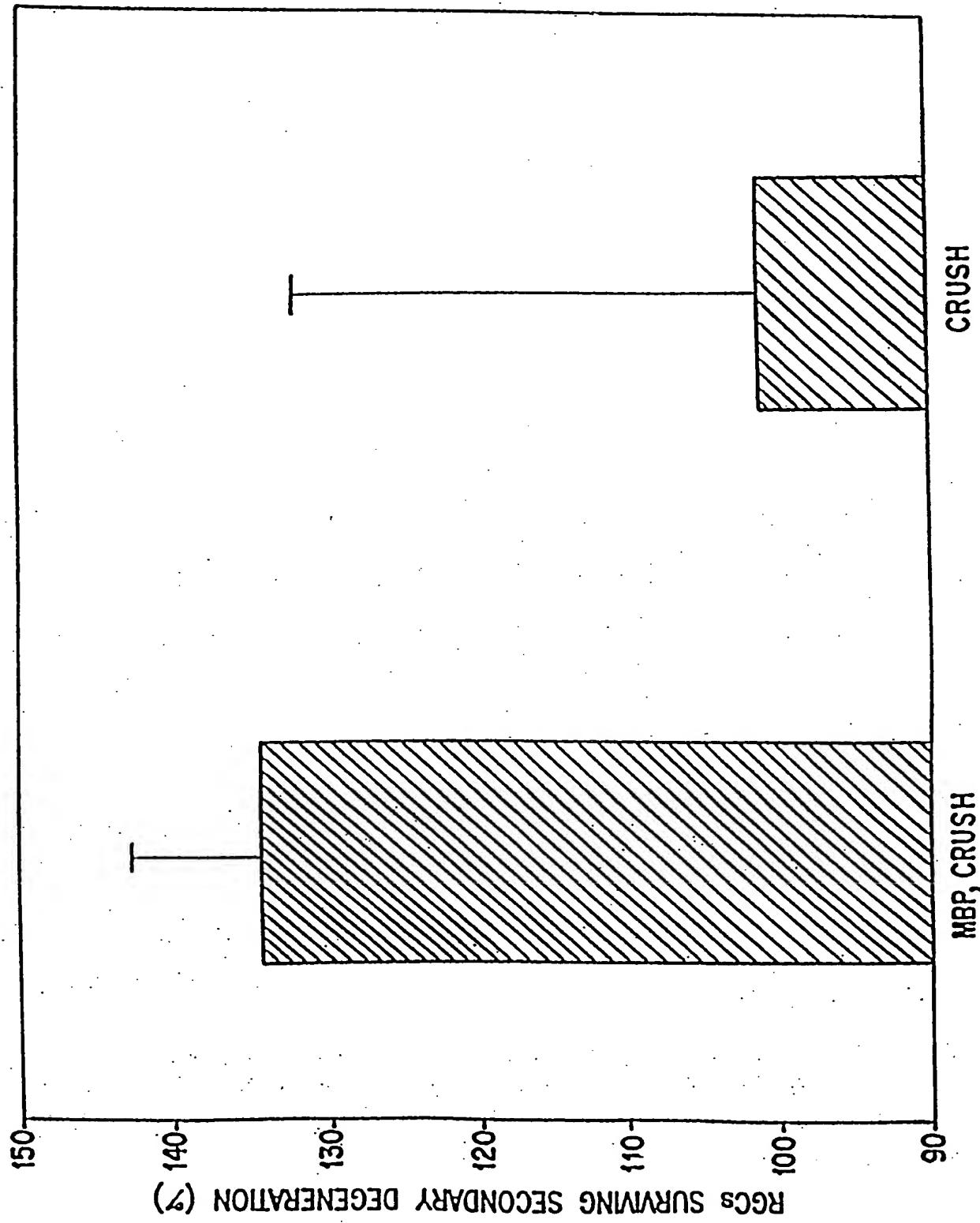


FIG. 8

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121 tggcttcctc ccaaggcaca gagacacggg catcctgac tccatgggc gttcttttag
181 cggtgacagg ggtgcgccc a g c g g g g c t c t g g c a a g a c a a g a c t a c c a
241 ctacggctcc ctgccccaga agtgcgcagag gacccaaat gaaaacccag tagtccactt
301 cttaagaac atttgacac ctcgtacacc ccctccatcc caaggaaagg ggagaggcct
361 gtccttcagc agatttagct ggggaggaag agacagccgc tctggatctc ccatggcaag
421 acgctgagag cctccctgct cagccttccc gaatctgcc ctcggcttct taatataact
481 gccttaaacg tttaattcta cttgcaccaa atagctagtt agagcagacc ctctcttaat
541 cccgtggggc tgtgaacgcg gcgggcccagc ccacggcacc ctgactggct aaaactgttt
601 gtccctttt at

FIG. 9

1 gaaaacagtg cagccacctc cgagagcctg gatgtatgg cgtcacagaa gagaccctcc
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121 ttcccctcaa ggcacagaga cacgggcattt cttgactcca tcgggcgtt ctttggcggt
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721 ggccaacagt taaatgagaa catgaaaaa gaaaacgggtt aaaatgtcc ctttctgtgt
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1321 gtggcctctg gacgtcaccg ttgcctgtca tggggcccc agagcagcct ctatgaacaa
1381 cctcgttcc aaaccacacg ccacagccgg agatgtccagg aagacttgcc cactcagac
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1981 acaaaccctcc aaattttca gcaagacac tctgcgtcgcc tggctgtt gtagctgagg tcggctctgc
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FIG. 10

A.

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301 gaggagaagg ggaggaggag aggaggagga aagcaggct gtcccttaa gggggttggc
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481 ccacaaagca gactagccag ccggctacaa ttggagtcag agtcccaaag acatggtaa
541 gtttcaaaaa ctttagcatt gaagattcaa gaggacacag g

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B.

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1621 gtgttaagtac ctgcctccc acacagaccc atctttttt tccctctctc catcctggag
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C.

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661 tgggttatac ctttggcc cttcttagta ggtaccacaa gatggatct aactggacaa
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781 ataataaaaaa ttaaataata actccaaggta aatattacaa tggtctgg

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D.

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121 ggagmgccct ggaacctgggt ttaatgtct ggcacacgccc acttccagga tctccagtt
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1021 tcaattttaa ggactgaaag ttccctttt ctggattttt aattagccga ttgccttcta
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E.

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FIG. 11F

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 1861 aagtctgag attacaggca tgagccatgg cgtctgaccc agactccta atgtgactaa
 1921 ctccaggctt tccttggact acttcttact tgcataatca gctttgttctt ttcacctctc
 1981 caattgagat aaaataataa caacctctt gaggctctcat caggattaca tggaaatgaga
 2041 tatgtaacat gcttagcagt gcctgtccat agtaaaatctc aataaaatgtt tggaaatgg
 2101 taatatcttgc tcatgttga gactttgtc tgcataatca ggcaccatgaa gtttttata
 2161 aaggaaccccg tctgtcacgt gcagaggaga aataaaacaga aagttttcca tcctcaggga
 2221 gccacactgac tgacagaggc acagtgcatc cactctccag gtctagggga gaaagcagcc
 2281 ttatttctta gtagctcaga atctgacttg agaaacacat ccacatagaa aaaaacaagg
 2341 aacttttcg ggtcagggtc cgggaccac agtgagggtgg aagatacagg ggaaggaaga
 2401 gggaaataga gccatccccca ggttggaaatg tctcagaaga gaatttgggaa aacaaggat
 2461 gaacaaggac tgaatagtga gaagtgtatgg agagacagct aaagttagatg gagtgtcaaa
 2521 accaaaaccc ttaagggttag aataggcagc aatttggcca agtcctaaca gggaggccca
 2581 taggaggatt caacctcaag atgctgtgcc acattccaag agggaaaccta aaggctggcc
 2641 tgaagagtca gagatggcta cagctggcaa aaagatgggc agatgctgag agagatgt
 2701 tgctaaaatg ttctgtccag gacattcaca gtatctctat aaccagatgc tttttgtcg
 2761 ttgttggttctt caagaaggaa acttgaggcc ggttgggttgc gtttatgccc ataatcccc
 2821 cgctttgggg ccaaggcagg cggatcacct gaggtcaggaa gttcgagacc agcctggcc
 2881 acagtgtgaa acctcatctt tactaaaaat acaaaaaat gctggatgcg gggtaggtt
 2941 cctgttaatgc cagctactcg ggaggctgag gcaggagaat cacttgaacc tgggaggcgg
 3001 aggttgcagg gaggcggagg ttgcagtgttgc ccaagattgc accactgcac tccagctgg

3061 ggcacagaga gtaaagactgt ctcaaaaaat aaatgaataa ataaaaagga agaagaagaa
3121 gaagaacaat tgcaatcctc cctggctcta gaatgtcatt taaaagtgcg gtgtcttctt
3181 cttccctgt tttgaagcag cccttctcat gacaggcttg ctgc当地
3241 ccttaaatct cttcttttgc gtgtcttgcg cagggcagtt cagagtata ggaccaagac
3301 acccttatccg ggctctggc ggggatgaag tgaattgcg atgtcgatc tctc当地
3361 agaacgctac aggatggag gtggggctgt accggcccccc cttctctagg gtggccatc
3421 tctacagaaa tggcaaggac caagatggag accaggcacc tgaatatcg ggccggacag
3481 agctgctgaa agatgttatt ggtgaggaa agtgcactc caggatccgg aatgtaaagg
3541 tctcagatga aggaggttt acctgcttct tc当地
3601 caatggaaatt gaaagttagaa ggtgagtagt gccatataat attaggtatt aactgttggg
3661 tggccaagaa caattattct ctc当地
3721 ctggaaatga ttccataaa aatgtacaca tcaataaaaca gaaatcatac
3781 tctgttgcatt cattattcag agtagcaagg aattggat caaaatcaat gc当地
3841 aggttaagtga cagaatgaac aatgttagcc atactgtgaa tattatgcg ggattaaaa
3901 gattatttttgcactaggcc agatggggtt gggggctct ctaaggtt attgagtgat
3961 aagagcaagc tgctgttagga tacaaaaaca aaaacaaaac cctagggcat ggtggg
4021 ctcgcagcta ctcaggaggc tgagacgggaa ggctggctt agccccagggg tttgc当地
4081 cagtgcgacta tgattgcacc actgcacttcc aaccgggtg acagagcaaa gaccc
4141 cccactccct acccgctctc aaaaaaaaaaaca aaaacaaaaaa caaaaaaaaacc
4201 ggc当地
4261 gtc当地
4321 aaaaaaaaaaaa aaaaaattta aatcccagca ctgtgggagg cggaggtggg
4381 ggaggctgag gcaggagaat cctggctaaa acggtaaaac cccgctctca
4441 cttccactgc actccagcat ggggacaca gcgagactcc gtctaaaaaa
4501 accctgtatt tgtgagcga cacacacaca cacacacaca
4561 gtgaataagc aagtaaatca aatgtctaaa tataattata gaaaggagat
4621 ggctgtactt ccacttatttcc attctgc当地
4681 ttcttttctt ttttttttgc acacagagtc tgctctgtc acccaggctg
4741 ggc当地
4801 ttacagggttcc caccacccac
4861 accagggttgc caagggttgc acccagtaa ttttttgc
4921 cccaaagtgc tgggattaca
4981 acatgttttgc catgtgggt
5041 agatgtggac aaggtaagc
5101 gaggaactaa actgtttgc
5161 cctgcagtgca aaacatcaga
5221 tgcagtgctg ggaccagaag
5281 actgcctgca gggatatgg
5341 ttttattggg gaaattctac
5401 gatttttctc cttcctgctc
5461 ccctcagtt caccacacca
5521 atccccaaaac, tttggggaggc
5581 agcctgacca acatggagaa
5641 tggccatc ctgtatcccc
5701 ggc当地
5761 gaactccatc tccaaaaaaa
5821 agactttggc tcaggggaga
5881 ttccccaccc ttcgtctgca
5941 gtctaggctt tggagccagg
6001 tattgcaagt ctc当地
6061 tggttactta ttttttctt

FIG. 12 (cont.).

6121 tctttaaatt cttcattatg aaacataaaa acaaatgcc ggcgcggcag ctcacgcctg
 6181 taatcccagc actttggag gccgaagcgg gcagatcacc cgggtcagga gttcgagacc
 6241 agcctgatca acatggagaa accccgtctc tactaaaaaa tacaaaatta gctaggcgtg
 6301 gtggcacatg ccagtaatcc cagctacttg agagactgag gcaggagaat cgcttgaacc
 6361 gggagggcaga gttgcggtg agccaaagatc gcgcattgc actccagcct gggcaacaag
 6421 agcaaaaactc tgtctaaaaa aaaaaaaaaacc acatacaaac cagagataat attataatga
 6481 gcctccaagt gcctaccacc ttgtgcagc acttgtcaat ccagggacca cccacctcac
 6541 cggctccccca ctcattacca ccctccctt ctcaattact gagtaatac ctaggcagca
 6601 tgatcatttc ttttttttct ttttattttt tttgagacag gatctgtctc tttcacccag
 6661 gctggagtgt agtggcatat ctgtgcac tgcgcctct gcctccggg cagaagccat
 6721 cctcccaccc cagcctacat agtagctggg accacaggca cacaccacca cacactgcta
 6781 atgtttgtta ttttttttag agactgggtt ttaccatgtt gatcaggctg gtctcaaact
 6841 ccttaggctca agcaatccctc ccacctcgcc ctcccaaagt gctagaatta caggcgcgag
 6901 ccactgcacc cagcgaagaa cacttttaa aaaataaata ggccggcgc ggtggctcac
 6961 acctgtatc ccagtaactt gggagccca ggagggcgaatcatgaggtc aagagattga
 7021 gaccatctta agtaacatgg tgaaacccca ttttactac aaataaaaaa aaaaaattag
 7081 cctggcgtgg tggcaggcgc ctgtgttccc agctacttgg gagctgaggc aggagaatgg
 7141 agtgaacccg ggaggcggag cttgcagtgta gctgagatca tgccactgca ctccccccctg
 7201 gggcaacaga gtgagactcc caaaaaaaaaa aaaaaaaaaacc cccccctcccc acacacaata
 7261 atataaataaa ataaataacc acaatactat tattcacatct tacaaactca aaaaaattt
 7321 cttaatatca tcaaataccctc agtttgcgtt caaattttcc tgatttttc ataaatatac
 7381 tcttacagtt gttttttttt agcgagattc aaatgagacc cacctgttga ctttgcct
 7441 tagggtttcc cagggctctga attttgcgttga cgacattttcc atgttgcgtat gtaatacgg
 7501 cctccatgcc ctgtttttt ctgttaactg atagatgtgg aggtgaatg acatttgcgt
 7561 ttgatTTact ttggcaaaata tagttcatca gtgatactt atacttctt ttgcattaca
 7621 tccggaggct gataatgtct gttttctt cttttctaat tatttgcgttgcggaaaatg
 7681 tgggggggtt ggagaaaaaa acccttaagt acatactcgc taaatcacat tgctcaggt
 7741 aacttccatt aagaacttga aagtaaagg agtgcattt ccccttaggg aacacaatga
 7801 tagacaggag ctttagtctt cagcttgcgtt gatttgcgttgcggaaaatg
 7861 gaccagttt atgttttagt ctgtgttgcgtt tccctaccc atacttgcatttgcggaaaatg
 7921 agctccctt aagcagagat caagatggaa aggcttcgc tgcagcatg gcacatggag
 7981 attagagtgg ggctttggta tgctgaggag cagacctaga atggaaata gatggagcc
 8041 acagaagtga aggtccccct cccttattgc tcaacctact ccacatctcc aggtctgcac
 8101 atctgttcaat ttactgttgcgtt tacccatcc ttctttttt ttttatttt
 8161 ttattttttt tttttttttt gttttttttt gttttttttt gttttttttt gttttttttt
 8221 tgcaatctcg gtcactgca cccttcaact cccagggttca cccagggttca
 8281 cttccaagta gctgggattt caggctgcac caccatgtct ggctatttt tggaaaatca
 8341 gtagagagag gtttccatca tttttttttt gttttttttt gttttttttt gttttttttt
 8401 ccacccaccc tggccccc aaatgttggg attacagggt tgagccacca tgcccgctgt
 8461 aaactacctt cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 8521 cttccgcaag ctgtatgttgcgtt gttttttttt gttttttttt gttttttttt gttttttttt
 8581 agtgtctcac tctgttgcaccc aggatgggtt gttttttttt gttttttttt gttttttttt
 8641 tccacccccc aggctcaatg tttttttttt tttttttttt tttttttttt tttttttttt
 8701 gttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 8761 tatgttgcctt agtctggctt gttttttttt gttttttttt gttttttttt gttttttttt
 8821 cccaaatgtgg tggattaca gggggagagcc accacacacta gttttttttt gttttttttt
 8881 acaccaataaa aacatttat accccaaatatac agttatccaa gttttttttt gttttttttt
 8941 agggtgaccc tattaaattttt gttttttttt gttttttttt gttttttttt gttttttttt
 9001 gattttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 9061 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 9121 ctcacccatca cttccgcctc ctgggttcaat gttttttttt gttttttttt gttttttttt

FIG. 12 (cont.)

9181 ctgggattac aggactgtgc caccacgtcc agctaatttt gtatttttag tagaaacagg
 9241 gttctccat gttggcagg ctggtcttga actcccaacc tcagggcgate cgccccgcctc
 9301 ggctcccaa agtgctggg ttacagggtt gagccaccgc acctggccaa tatttgtat
 9361 ttttattgac gacaaagtca aaggttctt tcatattttt gtggtgtatc gcctacaagc
 9421 ataattaaaa taaacactaa atttcagtt aaagttact gaaaataat atgtattttt
 9481 tattccctat ttaagcttg aatcccgtt cttccctatac cattaccact gtcctagttc
 9541 aggttcatgt tggtttttac ttaattgtt atcacagttt cttAACATTTCCTCATG
 9601 tctccagttcc tgttaggtgtt aatctgacg tggctactt ctagcttggg atcccttcag
 9661 gcaccaccac agccttgaac tacatattttt aaatcatat ttatTTTCAg taaactttaa
 9721 actgaaattt agtgtttatt ttaattatgc ttgttaggcga tacaccacaa taatatgaag
 9781 agaacctttt acgtttgtcgta caataaaaaag tcccttgggg ggacttcaga tgaagtccc
 9841 tttagtgcgcgtt gttaaaactc ccccaggctt accaaataat caatcttgcac tttaaaccac
 9901 ttgtcattttt aatctactt ctttcttggg aaaaaaaaaaagc catttttcct tcagggtctt
 9961 gctcaggggac caattctgtt tccatctt tgaatccttga tgatatttac ttcttttattt
 10021 gactgttattt atggggcccc agacaccatg ctgagtgttgg gggatttcagc tctggacaat
 10081 gtcaaatgtc agtcctgcct ttcagatctt ttctacttggg tgagccctgg agtgctggg
 10141 ctcctcgccgg tgctgcctgt gtcctccctg cagatcactt ttggccctgtt cttcctctgc
 10201 ctgcagtaca gactgagagg tacagggcag agggtgggtt gatcaggatc ctttctttaa
 10261 atgagctggc ttcttggagc tacaccactt aacatgtatt ttttttttttttttttttttttt
 10321 agaagttctt ctcactattt agtgataaag aaaaaaaaaata
 10381 tacatcttac ggaatgtttt catatgaata atcggaccta
 10441 tatgccatata agtaacccca ttttacagag gatacaactg
 10501 acttactcaa accgatataa cttataagt gtagagctga
 10561 cagctccatg caacttggg gagggttgc ttcgaatgtca
 10621 agtttgaat aaagataactg aagtggaaatg ctctaccaca
 10681 tttcctctt ctcattcaa cactgaggac tcaggtttag
 10741 ttttgcctag agctttcatt ctgagcccttcc tccttcttacc
 10801 agcaggaaga gtcttcactt cccttccatgc cccacccccc
 10861 gagaagtagt caaggagggtt atggggaaatg ttctgggggg
 10921 caacaaatgc ctccctctca ctttgcattt atcccgatgt
 10981 acacaaaaaa aggcccttgc cccatggc tgagcagaaaa
 11041 ggcagccctgg gtttgaattt catctcaggat actgaactct
 11101 tccaagcttc agtttgcctt ttttttttttttttttttttttt
 11161 ggaggattaa agtcatgcaaa agtgcctact acaaattccag
 11221 cactaaatgt tcagcttcc ccccttccattt cagatgggaa
 11281 tggcaacgcgca gtgggttgg gcaatgttgc gaactggaaa
 11341 gcaatgtgggat ttttttttttttttttttttttttttttttt
 11401 ctattgtatc tagactatag ctatggaaaag agccgcaccc
 11461 ttttgcctactt ctccttgcattt ttttttttttttttttttt
 11521 aggccgtggg ttttttttttttttttttttttttttttttttt
 11581 ctt
 11641 ccaatt
 11701 tccctctcaaa tcccttgcattt tcccttgcattt ttttttttt
 11761 ctatgg
 11821 gtggccctactt aaatccattt ccatttttttttttttttttt
 11881 gtaatgttccg gcatgttccat gccctccat gtcacttgg
 11941 cacctgg
 12001 ttcttt
 12061 gtactgtttttt tatgttccat gcaatgttccat gtcacttgg
 12121 gtttaacttcc tttatgttccat gatcttccat ttttttttttt
 12181 tcgttttacac gtaaaccttgc ttttttttttttttttttttt

FIG. 12 (cont.)

12241 actgtatcac ctgtacttat atttctgctt tacaactca ggatgttcc atagagtacag
 12301 aacatgacta atcagagaag acctcataga ggaatagaaa agccaccaag ccccactagg
 12361 aattgacccc tcaaggacat ggtttcttagc cttttgttc actgcagatt gcccaatgccc
 12421 taaagataat ggcaacagaa gagcacccaa atatttgtt gataaatgtt gcagacacta
 12481 gaaggtgtca tttagggcaca gatggtagct tctctgagca aacttccttc acagctcc
 12541 ctcccgaggc ttaggtgac tctactcttgc tcacctggca cacagagttc tatcgtaga
 12601 tttagaaat tagaccagt tgtaggaccac acacacacac atcttacac acccaaagag
 12661 gagaatagt atcttgtt tgtaggact gactatgaaa ggtcttaact ctttttgta
 12721 ccatgaatct ctctggcact ccagtgaagt ctaaaggacc ctttgccaga atgttttaa
 12781 atatacacat aaaatagaac acataggatt gcaaaaacaa tcattgtact aaaatacagt
 12841 tatcaaccga taatcacatt tggatatacg taacataaaat gtttctttt tttttttt
 12901 gaggcagagt ttggcttgc tcacccagc tggagtgcac tggcgcgatc taggctcact
 12961 gaaacctctg cttccccgggt tcaagcgatt ctcaaccccttcc tgagtagctg ggattacagg
 13021 tgcccggccac cacacccagc taattttgtt attttagta gagacttagt ttcaccagg
 13081 tggccaggct ggcctcgaac tcctgaccc aggtgatcca cctgccttgg cctcccaaag
 13141 tgcgtggatt acgggcatga gccaccgtgc cggccataa atatttctt agccaaagta
 13201 atacattaag taatgttaga gcaagtctaa taacctgtaa tttcttctt tttttttt
 13261 tttctttttt ttttagatgatg agttttttt agatggagtg caatggcaca atctcggtcc
 13321 actgcaacact ccaccccttgc ggttcaagcg atttcctgc ctcagcccttcc caagttgtct
 13381 gaactacagg cgcatgccac catgcccagc taattttgtt attttagta gagacgggg
 13441 ttacccatgt tggccaggct ggttgcacccctc aggtgatctg cctgccttgg
 13501 cttccaaag tgctgggatt acaggcatga gccaccaggc ccagccaaat aaccttaat
 13561 ttcaacatac taataaacat aaacagtatt tcaagatttca tgcaataact ctaatggaa
 13621 tgaaaacatc tggcttcc attggtaatt aagtacagg tactgctcat attgtggta
 13681 gttgtaaaat gttttgggtt gttttgttt ttccaagact tggggaaatg ggtgttgggt
 13741 ggatcaacaa ggttgcgtt ctgtggccca ggctggagtg cagggccagg atcttggctc
 13801 actgcaacact ccgcctccca ggttcaagcg atttcctgc ctcagcccttcc tgagtagctg
 13861 gcattacagg catgtgccac cacgcccagc taatttttac attttagta gagatgggg
 13921 ttacccatgt tggcttgc ggttgcacccctc atgatccacc cgtctcggac
 13981 tcccaaggatg ttgggattac aggcatgagc caccacaccc ggcagtgtt acattttaa
 14041 tgaaagaaaa tggtaatcc agttattgaa aataaggagg cagtactttt ctcatccaaag
 14101 ttcatggact ttctgaattt tggcccccaga gtcctttgtt gttctaggac cccaggtaa
 14161 ggaacccaaa aagacagggt ggtggggcat gagggggaaac acatgttaat ccctgtttgt
 14221 tctgtgaac aattcagatc cccacttctt ggggtggcc tgcgtggaa taaccctgtt
 14281 tggtaattgtg ccgggttcttgc gacccttgg tgccttgcata atctgtcaca actggctaca
 14341 tcgaagacta gcagggtcag tggctggca gcaggcaaga ccaccaata gtgggggacc
 14401 aagttagtgc tgaatggaa gccaaaagag aatagaacca ggactcaaga tttagggagc
 14461 tgggatttcc ttattccttgc tggccatgc ccaaccccaag gctttctga gaaactgtga
 14521 agagaaccac ttactggatc tggggatcc cccagtgaa gggcaggatgtt ggtcactcc
 14581 aaatgtccat agggaggatg tggggaaagg gctattcatttccacta atctgttgcata
 14641 ttcttttttgc tttcaggcc aattccttgc agagctacgt aagttcttctt ctctgttgcata
 14701 taagcagaga ataaaaagcc aggaaaggaa gacagaagca acaagaggaa gaggcgggct
 14761 attgaggatg cacatccca gaggaaaggaa ggagctggag agcctgggt gagggaagac
 14821 tcctcctggg aggttagaggg caaagaagcc agctgttaga gacacatttca caggtggcag
 14881 agaagctgga ggcactcta tctgccaccc gatccattcc tccttcaactg cccctaagca
 14941 ggaatccaaac cctagctgtt ctcatgc cccatccacagc aactgcccag tgcctcacct
 15001 ctcaagatcaa ctttggggc agggatggag acaagatgac cccaaaggct ttctttctcc
 15061 ctatgtcaat gtttttatgaa tacaaactac tgacatacgat ttttcaagttt atttcttcc
 15121 tctcttagga aatcccttgc ggtgtatgtc acatcttggc aggggtggag gagagcctgg
 15181 ttggccaggc atttgcctt ggggacatct catccatcaa gttgcacact cactggcattc
 15241 ttgttatgg ggacattcca atttgcactt tcaggaacac tctgaattcc aagtagaaatt

FIG. 12 (cont.)

15301 gattccctt cttctgtcat ctacctttc tcttcatttt cccatTTTA ttacccttct
15361 ttccattttct ctctccagtc ttccacctgg aaggcctctc tggctaagga caggcaggtg
15421 cccctctctc catcagagga cacctgtact ggagagcaac acaggatggt ctctgccatg
15481 aactggaggc caggaatctc ctcactgaaa attacagtat ggttaactttg caaatggtg
15541 ttgtttcttc caagactcca gcccgttgc cgccaaactg aaaggcatgt gaagggaagg
15601 aagaggaaga gtgccaaaca ttgaagagag agctgagtga gctgaagagt gaggatatga
15661 gtagccccaa cccaaacctg gagatgggg aaaacctaca gaatactagc cagagctct
15721 ccttgtcttg gcagcctact agggacctgg ggaagcaaaa acgaaagctg ggcaacatgc
15781 ctgctttaga atgtttctt tctacttaca catcttccac aggtctcaga atctttccct
15841 cctctcatcc ttttctcta tctacatatac tattcagagta tccactgttt attcaacaac
15901 tactacttga tggtcagaca caaacaaaca agcttaggtgc taattaataa agatacgaat
15961 ttggccggg tgcggggct cacgcctgtt atccccagcac tttggggaggc cgaggcgggc
16021 gaatcacgag gtcaggagtt caagaccagc ctggccaaca tggtaaaacc ccatctctac
16081 taaaaataca aacaattaaac tgagcatagt ggtgggcacc tataatacca gctactccgg
16141 aggctgaggc aggaaatcg cttgaaccca ggaggcagag gttgcagtga gctgagatcg
16201 cggccactgca ctctagccgg agtgacagag taagactctg tctcaaaaat aaataaataa
16261 ataaaataat aaataatataa ataaataaaa aataataata caagtttca taagcacact
16321 tctaaccctt tgtctttat gtatttctt ccttatccac gcacctgtct ccctctactc
16381 cagcctcat accccagagg tcagtcctca ggaaaactaa acacaaagaa agagctcaat
16441 cagaaaggcc attttttat gtttcaagat gtcactgca tcctttgttt tgtctccctt
16501 gcaggccttc tctcttaggc ctcttctt ggggtatgg atcctgggg gagattgatc
16561 acctccatgc ttccattctt ccccagccat agtggggaca tcatgagaga agccaagcca
16621 ctggcccgagg atcacccggc atttatggtgc gtcgtctgg cacaggttgc tgcctttata
16681 gcccctccag tgatccataa gcccctttt ctcccaaag gagaggtcac agatagggca
16741 aaggtagctc ttctgcttcc agtgggtctg ctgggtgtc accagcctgg aaaaatgagct
16801 gaaagacttg ctgcaatggc agcagtagtt gggcggctt gtgagggtgg cttctgg
16861 tctggagaga taggatttct tgctaaaagt caaagaacaa tggggcaac agaagacatt
16921 gagtcctgag ggcttcactg gatgagagtt ggatctggca tcctgacaga gggttccagt
16981 gatgggtgcc tgggtctgg tcacaggtgc ttggttcttta agtacagatg cttgggtctg
17041 ggccatagga ccctcagttc taaatatggg ttccctggac ctggccactg gtgcattgg
17101 cacatccaaa agcccctggc tggacctctg gcttctggcg atgggtgtct gaaattcagc
17161 ctgggtgcct ggaacctca aagtacactc ctgtttcca tccactggct cttgggttttg
17221 gtgtatcttc tggtgccgtt tgagctcaga ctggtccgg aagctcttcc cacacacaga
17281 gcatgaatgg ggccgtaac ccagatgac gcggcgggtga cgacttagtc cagaagcatc
17341 acatgttagtc ttgtcacaga gcgtgcaaca gaaggccctc tccccaaat gcatgcgtct
17401 gtgatagctg agggacttgg ggctccggaa caacttccca cactgactgc agctgttagt
17461 cagttgggaa ttgtgaacaa actggtgct atagaggtag gagcgcctgc taaaacattt
17521 ggcacaggtg tagaaaa

FIG. 12 (cont.)

1 tttgtatgtc attgcaggat tcatgcttc cagtgtgtca tctatggaac tgccctttc
61 ttcttcctt atggggccct cctgctggct gagggcttct acaccaccgg cgctgtcagg
121 cagatcttg gcgactacaa gaccaccatc tgccgcaagg gcctgagcgc aacggtaaca
181 gggggccaga aggggagggg ttacagaggc caacatcaag ctcattttt ggagcggtg
241 tgtcattgtt tggaaaaatg gctaggacat cccgacaagg ttagtcatcct caggatttg
301 tggcaataac aaggggtggg gggacaa

FIG. 13

1 ctgtatcagt gctcctcgtc gcctcactgt acttcacgga agagacttgg ttgactggcc
 61 acttggagcg gaatcaggag acattccaa ctcagagaga ctgagcccta gctcgcccac
 121 ttgctggaca agatgatatt cttaccacc ctgcctctgt tttggataat gatttcagct
 181 tctcgagggg ggcactgggg tgcctggatg ccctcgcca tctcagcctt cgagggcacg
 241 tgcgtctcca tccccgtccg tttcgacttc cggatgagc tcagaccggc tgggtacat
 301 ggcgtctggt atttcaacag tccctacccc aagaactacc cgccagtggt cttcaagttc
 361 cgacacacaag tggtccacga gagcttccag ggccgttagcc gcctgttggg agacctggc
 421 ctacgaaact gcaccctgct tctcagcacg ctgagccctg agctgggagg gaaatactat
 481 ttccgaggtg acctgggccc ctacaaccag tacaccttct cggagcacag cgtcctggac
 541 atcatcaaca ccccaacat cgtggtggcc ccagaagtgg tggcaggaac ggaagtagag
 601 gtcagctgca tggtggccga caactgccc gagctgcgcc ctgagctgag ctggctggc
 661 cacgaggggc taggggagcc cactgttctg ggtcggctgc gggaggatga aggacactgg
 721 gtgcaggtgt cactgtaca cttcgtgcct actagagagg ccaacggcca cctgtctggc
 781 tgcaggctg cttccccaa caccacctt cagttcgagg gttacgccc tctggacgtc
 841 aagtaccccc cggtgattgt ggagatgaat tcctctgtgg aggccattga gggctccac
 901 gtcagcctgc tctgtggggc tgacagcaac cggccaccgc tgctgacttg gatgcgggat
 961 gggatgggtgt tgaggagggc agttgctgag agcctgtacc tggatctgga ggaggtgacc
 1021 ccagcagagg acggcatcta tgcttgcctg gcagagaatg cctatggcca ggacaaccgc
 1081 acgggtggac tgagcgtc atgtgcaccc tggaaagggca cagtgaatgg gacgggtggg
 1141 gggtagagg gggagacagt ctccatcctg tggccacac agagcaaccc ggaccctatt
 1201 ctcaccatct tcaaggagaa gcagatcctg gccacggta tctatgagag tcagctgcag
 1261 ctggactcc ctgcagtgac gcccggaggac gatggggagt actgggtgt agctgagaac
 1321 cagtatggcc agagagccac cgccttcaac ctgtctgtgg agttgctcc cataatcctt
 1381 ctggaatcgc actgtgcage ggcacggagac accgtgcagt gcctgtgtgt ggtaaaatcc
 1441 aacccggAAC cctccgtggc ctttgagctg cttcccgca acgtgactgt gaacgagaca
 1501 gagagggagt ttgtgtactc agagcgcagc ggcctctgc tcaccagcat cctcacgctc
 1561 cggggtcagg cccaaacccc accccggcgtc atttgtaccc ccaggaacct ctacggcacc
 1621 cagagcctcg agctgcctt ccaggggagca caccgactga tgtggccaa aatcggccct
 1681 gtgggtctg tggtcgcctt tgccatcctg attgccattg tctgctacat caccggacaca
 1741 agaagaaaaa agaacgtcac agagagcccc agttctcag cgggagacaa ccctcatgtc
 1801 ctgtacagcc ccgaattccg aatctctggc gcacccgtata agtatgagag tgagaagcgc
 1861 ctggggtccg agaggaggct gctggccctt aggggggaaac ccccaact ggacccctcagt
 1921 tattcccaact cagacccctgg gaaacgaccc accaaggaca gctacaccct gacagaggag
 1981 ctggctgagt acgcagaaat ccgagtcaag tga

FIG. 14

1 masqkrpsqr hgskylatas tmdharhgfl prhrdtgild sigrffggdr gapkrgsgkd
61 shhpartahy gslpqkshgr tqdenpvvhf fknivtprtp ppsqgkgrgl slsrfswgae
121 gqrpgfgygg rasdyksahk gfkgvdaqgt lskifklggr dsrsgspmar r

FIG. 15

1 mgilleccarc lvgapfaslv atglcffgva lfcgcgheal tgtekliety fsknyqdyey
61 linviyahfqy viygatasfff lygalllaeg fyttgavrqi fgdyktticg kglSATVTG
121 qkgrgsrgqh qahslervch clgkwlghpd kityaltvvw llvfacsavp vyiyfntwtt
181 cqsiapkskt sasigslcad armygvlpwn afpgkvccsn llsicktaef qmtfhlfiaa
241 fvgaatatlvs lltfmiaaty nfvavlklmqr gtkf

FIG. 16

1 maslsrpsslp sclcsfllll 1lqvsssyag qfrvigprhp iralvgdeve lpcrispgkn
61 atgmevgwyr ppfsrvvhly rngkdqdgdq apeyrgrtel lkdaigegekv tlrirnvrfs
121 deggftcffr dhsyqeeaaam elkvedpfyw vspgvivlla vlpvllqit lglvfclqy
181 rlrkgklraei enlhrtfdph flrvpcwkit lfvivpvlgp lvaliicynw lhrrlagqfl
241 eelrnpf

FIG. 17